Dark Fiber Solutions

Virtually Unlimited Capacity

Looking Glass Networks provides the dark fiber you need - where, when and how you need it. Our DarkGLASS℠ dark fiber solutions offer flexible, fixed-cost access to virtually unlimited capacity. You get the security advantages of ring configuration and exclusive use of each fiber pair plus end-to-end control of speed and bandwidth with the option of supplying your own electronics.

Our metro networks are built to carry extraordinarily high capacity - up to 864 strands of fiber. Because we build, own and maintain our networks, we are physically diverse from other fiber providers and can bring the dark fiber and fiber infrastructure you want wherever you need it. You benefit from our scalability and flexibility as we expand our footprint to meet your changing needs.

Our technologically advanced, high-grade fiber optic cable supports the full spectrum of bandwidth applications. Our presence at data aggregation points and enterprise buildings in the top U.S. markets ensures reliable access to IXC, ISP, ILEC and CLEC locations as well as Web hosting facilities and data centers.

Why Looking Glass Dark Fiber?

- Virtually unlimited capacity
- Flexibility to extend networks to meet your specific needs
- Physically diverse from other fiber providers
- Redundant ring topology connected to major data aggregation locations
- Support for all applications and technologies
- Your choice of access options

Looking Glass℠
N E T W O R K S

Quality and Security

When you work with Looking Glass, you'll have access to the most technologically advanced fiber optic cable for error-free transmission. Quality and security is integral to our network operations, which is monitored at our Network Operations Control Center (NOCC). We provide ongoing performance evaluation, alarm surveillance and expert support and service 24x7. Additionally, we participate in local One Call, Call Before You Dig, Dig Safe and Dig Alert programs.

Where You Need To Be

We are providing breakthrough, fast-track solutions in the top U.S. metropolitan areas, initially connecting to key data aggregation buildings in Atlanta, Baltimore, Chicago, Dallas, Houston, Los Angeles, New York/Northern New Jersey, Philadelphia, San Francisco, San Jose, Seattle and Washington D.C./Northern Virginia.

The Looking Glass Advantage

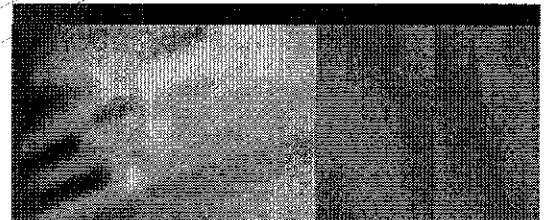**Focused** - Facilities-based metro networks with abundant local connections
Flexible - Scalable lit services, dark fiber and collocation space
Fast - Rapidly delivered high speed telecommunication transport services

DarkGLASS - Dark Fiber Access Where You Need It

With connectivity in primary carrier hotels, ILEC central offices and key enterprise buildings in major U.S. metro markets, DarkGLASS connects you where you need to be. Depending on your location and requirements, we offer the following access options:

- Zero manhole - Street-level access at Looking Glass manholes
- Point of Presence (POP) - Access at Looking Glass termination panels in buildings where Looking Glass maintains a presence
- Customer location - Termination at the customer's location
- ILEC Central Office - Access via the Looking Glass collocation area inside the ILEC central office

Contact Us

To learn more about how Looking Glass can help you with your dark fiber needs, contact us toll-free at 1-866-778-LGN1 (5461) or visit www.lglass.net.

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Looking Glass NETWORKS

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Our Network

Network Map

Architecture

NOCC

Real Estate

Company Brochure PDF

Driving Results from Start to Finish
We are providing breakthrough, fast -track solutions in the top U.S. metropolitan areas listed below.

To find a current list of buildings available in your area, roll your mouse over the market in which you are interested.

Free from the constraints of legacy systems, Looking Glass builds metro optical networks, which deliver immediate and lasting results. Because we own and control all aspects of our networks, we have the greatest flexibility to meet the requirements of carrier and enterprise customers, keeping them moving at the speed they need.

Safe At Any Speed
Our self -healing networks mean fewer service disruptions and greater network reliability — with annual transmission availability of up to 99.999 percent. With an all -optical network based on next -generation SONET/SDH technologies, our networks are capable of 50 millisecond recovery from failures such as fiber optic cable cuts. All backbone fiber is diversely routed and path protected. Looking Glass' Network Operation Control Center (NOCC) monitors and maintains our networks 24x7.

Solutions In The Fast Lane
We are providing breakthrough, fast -track solutions where the need is greatest — in the top U.S. metropolitan areas. We are initially connecting to key data aggregation buildings in Atlanta, Baltimore, Chicago, Dallas, Houston, Los Angeles, New York/Northern New Jersey, Philadelphia, San Francisco, San Jose, Seattle and Washington D.C./Northern Virginia.

How Do You Benefit?
Every aspect of Looking Glass' operation is designed to provide the highest value to you, now and in the future.

- We deliver the broadest possible range of SONET, Ethernet and Wavelength services.
- Our redundant optical networks connect major data aggregation locations, ensuring access to the services you require.
- Our networks offer physical diversity from other fiber providers.
- We can build to the locations of your choice to meet your specific connectivity needs.
- Turnkey solutions for fiber optic facility design and construction.
- Our network nodes have the space and power to support physical collocation.
- Our Operational Support Systems ensure capacity and configuration availability, support rapid service delivery intervals, and provide Web -based access to everything from service ordering through fulfillment.
- Whenever you have questions and concerns, you get help directly from an experienced and knowledgeable Looking Glass customer care specialist, 24x7.

Looking Glass
N E T W O R K S

CHICAGO
600 West Chicago Avenue, 3rd Floor Ste 350 (LGN Node)
10 South Canal Street, 10th Floor
101 North Wacker Drive, 3rd Floor
111 North Canal Street, (River Center), 2nd Floor
130 East Randolph Street, (Prudential, 180 N. Stenson), S Level
140 South Dearborn, Ste 220 Mezzanine
155 North Michigan Avenue (Doral Building), 7th Floor Ste 712
180 North Stetson Avenue
20 North Wacker Drive, 12th Floor Ste. 1245 (Civic Opera Building)
350 East Cermak Avenue, 2nd Floor (Lakeside Tech)
427 South La Salle, (Western Union) Basement Level
600-700 South Federal, 1st Floor Ste 136 Printers Square
601 W. Polk, 1st Floor
710 North Lakeshore, 2nd Floor Ste 237
717 South Wells Street, Basement
1 South Wacker
11 East Adams
123 North Wacker
200 East Randolph
221 North LaSalle
231 South LaSalle
233 South Wacker (Sears Tower)
350 North Orleans
500 West Madison
725 South Wells
10 South Canal Street, 5th Floor
311 West Washington Boulevard 6th Floor
520 South Federal Street, 6th Floor

The Lit Services You Need, When You Need Them

Looking Glass consistently provides fast provisioning of a broad set of lit service offerings. We offer not only SONET (Synchronous Optical Network) services and SDH (Synchronous Digital Hierarchy) but also Gigabit Ethernet and Wavelength services that support both traditional and non-traditional applications.

Lit Services Menu

We offer the following services, circuit types and speeds to meet your needs:

Looking Glass Service	Circuit Type		Speeds
FastGLASS℠		DS-1	1.544 Mbps
		DS-3	45 Mbps
	SONET/SDH	OC-3/STM-1	155 Mbps
		OC-12/STM-4	622 Mbps
		OC-48/STM-16	2488 Mbps
		OC-192/STM-64	9953 Mbps
EtherGLASS℠	Ethernet	10Base	10 Mbps
		100Base	100 Mbps
		GbE	50 Mbps
		GbE	155 Mbps
		GbE	311 Mbps
		GbE	450 Mbps
		GbE	622 Mbps
		GbE	1000 Mbps
WaveGLASS℠	Wavelength	2.5 Gbps	2,500 Mbps
		10 Gbps	10,000 Mbps
		Fibre Channel/FICON	1,062.5 Mbps
		ESCON	200 Mbps
		GbE	1,000 Mbps

FastGLASS - SONET/SDH Services

FastGLASS telecommunications transport services support DS-1, DS-3, OC-3/STM-1, OC-12/STM-4, OC-48/STM-16 and OC-192/STM- 64 circuits at speeds ranging from 1.544 Mbps to 10 Gbps. Point-to-point private configurations are available for all circuit types, with hub service circuit configurations available for DS-3 and OC-n/STM-n circuit types.

Fully protected access is available through Automatic Protection Switching (APS) that provides fault recovery in under 50 milliseconds to ensure quality of service (QoS) for time-sensitive or mission-critical applications. For less mission-critical applications, limited circuit protection options are available. In all cases, our self-healing ring architecture and non-blocking dedicated circuits provide built-in network survivability.

EtherGLASS - Ethernet Services

EtherGLASS 10 Mbps Ethernet services are available on a 10Base-TX (twisted pair) interface while 100 Mbps Ethernet services are available on a 100Base-TX interface. Gigabit Ethernet services are available on either 1000Base-SX (multimode fiber), or 1000Base-LX (single mode fiber) interfaces, at transmission speeds that are configurable from 50 Mbps to 1000 Mbps, depending on your requirements.

WaveGLASS - Wavelength Services

WaveGLASS services allow transmission of SONET, Gigabit Ethernet and a variety of non-traditional services (ESCON, FICON, Fibre Channel) over the same fiber pair. Speeds range up to 10 Gbps. You also have the option of purchasing single or multiple wavelengths.

WaveGLASS circuits are available in point-to-point configurations with three protection options:
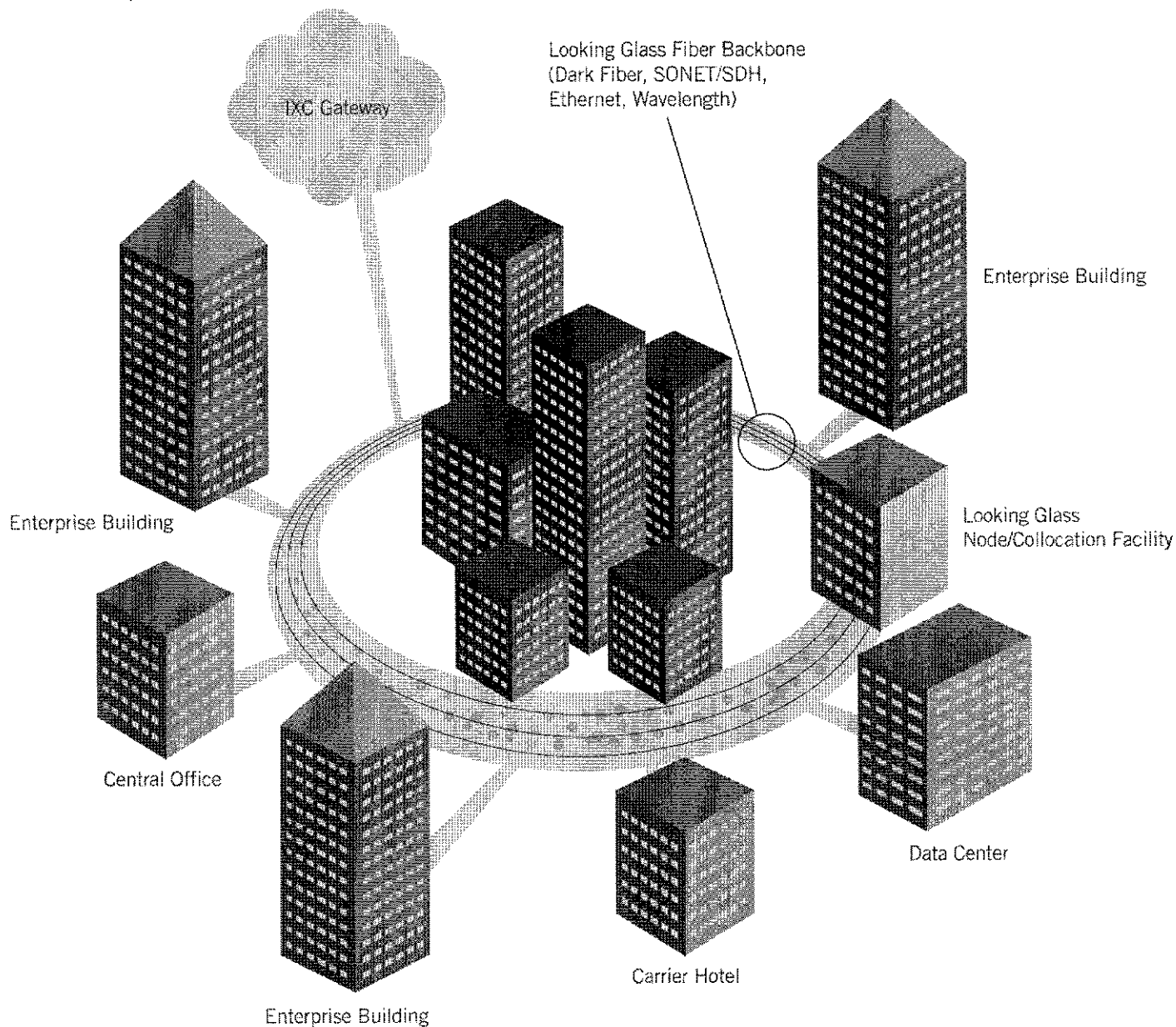• No protection: Both line-side (Looking Glass) and client-side of the circuit are unprotected
• Line-side protection: The line-side of the circuit is protected; the client-side is unprotected
• Full protection: Both the line-side and client-side of the circuit are protected

An Optical Platform with Limitless Possibilities
Our flexible, application-neutral optical platform allows us to serve you and scale with your needs regardless of your service preference.

Networks Like No Others

To ensure that you have reliable, scalable connectivity, each Looking Glass network ring uses a star topology where every building on the network is physically connected to a central node site via diverse paths.

Looking Glass Fiber Backbone
(Dark Fiber, SONET/SDH,
Ethernet, Wavelength)

IXC Gateway

Enterprise Building

Enterprise Building

Looking Glass
Node/Collocation Facility

Central Office

Data Center

Carrier Hotel

Enterprise Building

Our networks support two subscriber circuit configurations, point-to-point and hub service. Point-to-point circuit configuration, available for all Looking Glass services, enables you to connect two locations with reliable, dedicated bandwidth.

Hub and end-link circuit configuration, available for DS-3 and OC-n/STM-n interface types, is a unique derivative of a standard point to multi-point hub circuit. You can connect several remote locations to a hub site in a point to multi-point configuration, at multiple interface rates. Our node site serves as the end-link aggregation point, providing connectivity between the hub and the various end-link circuits.